

CRF Processing Date: 10/16/01

Edited by: MH

Verified by: (STI)

Serial Number: 09/830810A

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other
- ☐ Added the mandatory heading and subheadings for "Current Application Data"
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of page numbers throughout text; ☐ other invalid text, such as
- ☐ Inserted mandatory headings, specifically:
- ☐ Corrected an obvious error in the response, specifically:
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:
- ☐ Other:

ENTERED

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JAN 04 2002

TECH CENTER 1600/2900

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

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#11

JAN 04 2002

PCT

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 10/16/2001

PATENT APPLICATION: US/09/830,810A

TIME: 11:50:08

Input Set : A:\PTO.MH.txt

Output Set: N:\CRF3\10162001\I830810A.raw

ENTERED

3 <110> APPLICANT: Matzuk, Martin
 4 Pei, Wang
 6 <120> TITLE OF INVENTION: OVARY SPECIFIC GENES AND PROTEINS
 8 <130> FILE REFERENCE: P01925US1 / 09807797 / OTA 99-48
 10 <140> CURRENT APPLICATION NUMBER: 09/830,810A
 11 <141> CURRENT FILING DATE: 2001-04-27
 13 <150> PRIOR APPLICATION NUMBER: PCT/US99/25209
 14 <151> PRIOR FILING DATE: 1999-10-28
 16 <150> PRIOR APPLICATION NUMBER: 60/106,020
 17 <151> PRIOR FILING DATE: 1998-10-28
 19 <160> NUMBER OF SEQ ID NOS: 15
 21 <170> SOFTWARE: PatentIn version 3.0
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 24 <211> LENGTH: 1277
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Mus musculus
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 33 cgaccgcgcg cccctcctt cctcccggc tacagacagc tcatggccgc ggagtacgtc 180
 35 gacagccacc agcgggcaca gctcatggcc ctgctgtcgc ggatgggtcc ccggtcggtc 240
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 39 ctccggcgcc gcacgctgca gcctgcaggg tgccgagcca gcccgcacgc ccgatccggg 360
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 47 ccgagagagg tggccgcgag gaaagcggtc cccagccgc gaagcgagga gggcgatgtt 600
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 76 <212> TYPE: PRT
 77 <213> ORGANISM: Mus musculus
 79 <400> SEQUENCE: 2
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DATE: 10/16/2001

TIME: 11:50:08

Input Set : A:\PTO.MH.txt

Output Set: N:\CRF3\10162001\I830810A.raw

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91          50          55          60
93 Arg Met Gly Pro Arg Ser Val Ser Ser Arg Asp Ala Ala Val Gln Val
94 65          70          75          80
96 Asn Pro Arg Arg Asp Ala Ser Val Gln Cys Ser Leu Gly Arg Arg Thr
97          85          90          95
99 Leu Gln Pro Ala Gly Cys Arg Ala Ser Pro Asp Ala Arg Ser Gly Ser
100          100          105          110
102 Cys Gln Pro Arg Gly His Ala Gly Ala Gly Arg Ser Pro Arg Ser Trp
103          115          120          125
105 Gln Thr Val Ala Pro Phe Ser Ser Val Thr Phe Cys Gly Leu Ser Ser
106          130          135          140
108 Ser Leu Glu Val Ala Gly Gly Arg Gln Thr Pro Thr Lys Gly Glu Gly
109 145          150          155          160
111 Ser Pro Ala Ser Ser Gly Thr Arg Glu Pro Glu Pro Arg Glu Val Ala
112          165          170          175
114 Ala Arg Lys Ala Val Pro Gln Pro Arg Ser Glu Glu Gly Asp Val Gln
115          180          185          190
117 Ala Ala Gly Gln Ala Gly Trp Glu Gln Gln Pro Pro Pro Glu Asp Arg
118          195          200          205
120 Asn Ser Val Ala Ala Met Gln Ser Glu Pro Gly Ser Glu Glu Pro Cys
121          210          215          220
123 Pro Ala Ala Glu Met Ala Gln Asp Pro Gly Asp Ser Asp Ala Pro Arg
124 225          230          235          240
126 Asp Gln Ala Ser Pro Gln Ser Thr Glu Gln Asp Lys Glu Arg Leu Arg
127          245          250          255
129 Phe Gln Phe Leu Glu Gln Lys Tyr Gly Tyr Tyr His Cys Lys Asp Cys
130          260          265          270
132 Lys Ile Arg Trp Glu Ser Ala Tyr Val Trp Cys Val Gln Gly Thr Ser
133          275          280          285
135 Lys Val Tyr Phe Lys Gln Phe Cys Arg Val Cys Glu Lys Ser Tyr Asn
136          290          295          300
138 Pro Tyr Arg Val Glu Asp Ile Thr Cys Gln Ser Cys Lys Arg Thr Arg
139 305          310          315          320
141 Cys Ala Cys Pro Val Arg Phe Arg His Val Asp Pro Lys Arg Pro His
142          325          330          335
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,810A

DATE: 10/16/2001

TIME: 11:50:08

Input Set : A:\PTO.MH.txt

Output Set: N:\CRF3\10162001\I830810A.raw

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162 ctgttcccag taatttttga ggaggccttc actgatggat atatagggat cttgaaggcc 240
164 atgatacctg tgtggccctt cccatacctt tctttaggaa agcagataaa taattgcaac 300
166 ctggagactt tgaaggctat gcttgaggga ctagatatac tgcttgccaca aaaggttcaa 360
168 accagtaggt gcaaaactcag agtaattaat tggagagaag atgacttgaa gatatgggct 420
170 ggatcccatg aagggtgaagg cttaccagat ttcaggacag agaagcagcc aattgagaac 480
172 agtgctggct gtgagggtgaa gaaagaattg aaggtgacga ctgaagtcct tcgcatgaag 540
174 ggcagacttg atgaatctac cacatacttg ttgcagtggg cccagcagag aaaagattct 600
176 attcatctat tctgtagaaa gctactaatt gaaggcttaa ccaaagcctc agtgatagaa 660
178 atcttcaaaa ctgtacacgc agactgtata caggagctta tcctaagatg tatctgcata 720
180 gaagagttgg cttttcttaa tccctacctg aaactgatga aaagtctttt cacactcaca 780
182 ctagatcaca tcataggtac cttcagtttg ggtgattctg aaaagcttga tgaggagaca 840
184 atattcagct tgattttctca acttcccaca ctccactgtc tccagaaact ctatgtaa 900
186 gatgtccctt ttataaaagg caacctgaaa gaatacctca ggtgcctgaa aaagcccttg 960
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206 tgtggaacta ctataagctt gattgtgaaa ctgagaaaata gaaacttagt attggggact 1560
208 gatgaaatcc taagtgaatg tccactgcta aatggagcat gaaaatgtca atcacctaaa 1620
210 agtctgagat acacaggaaa gtcaataact tcctctgagc tggatgaatg atgttgcatc 1680
212 tgtagaaagt atcaagcact tgtagtttga atgtgttaca atagaagcac cattttatga 1740
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219 <210> SEQ ID NO: 4

220 <211> LENGTH: 426

221 <212> TYPE: PRT

222 <213> ORGANISM: Mus musculus

224 <400> SEQUENCE: 4

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229 Val Thr Glu Glu Cys Tyr Ser Pro Pro Thr Leu Gln Asn Leu Ala Ile
230 20 25 30
232 Gln Ser Leu Leu Arg Asp Glu Ala Leu Ala Ile Ser Ala Leu Thr Asp
233 35 40 45
235 Leu Pro Gln Ser Leu Phe Pro Val Ile Phe Glu Glu Ala Phe Thr Asp
236 50 55 60
238 Gly Tyr Ile Gly Ile Leu Lys Ala Met Ile Pro Val Trp Pro Phe Pro
239 65 70 75 80
241 Tyr Leu Ser Leu Gly Lys Gln Ile Asn Asn Cys Asn Leu Glu Thr Leu
242 85 90 95
244 Lys Ala Met Leu Glu Gly Leu Asp Ile Leu Leu Ala Gln Lys Val Gln
245 100 105 110

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,810A

DATE: 10/16/2001

TIME: 11:50:08

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Output Set: N:\CRF3\10162001\I830810A.raw

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250 Lys Ile Trp Ala Gly Ser His Glu Gly Glu Gly Leu Pro Asp Phe Arg
251      130      135      140
253 Thr Glu Lys Gln Pro Ile Glu Asn Ser Ala Gly Cys Glu Val Lys Lys
254 145      150      155      160
256 Glu Leu Lys Val Thr Thr Glu Val Leu Arg Met Lys Gly Arg Leu Asp
257      165      170      175
259 Glu Ser Thr Thr Tyr Leu Leu Gln Trp Ala Gln Gln Arg Lys Asp Ser
260      180      185      190
262 Ile His Leu Phe Cys Arg Lys Leu Ile Glu Gly Leu Thr Lys Ala
263      195      200      205
265 Ser Val Ile Glu Ile Phe Lys Thr Val His Ala Asp Cys Ile Gln Glu
266      210      215      220
268 Leu Ile Leu Arg Cys Ile Cys Ile Glu Glu Leu Ala Phe Leu Asn Pro
269 225      230      235      240
271 Tyr Leu Lys Leu Met Lys Ser Leu Phe Thr Leu Thr Leu Asp His Ile
272      245      250      255
274 Ile Gly Thr Phe Ser Leu Gly Asp Ser Glu Lys Leu Asp Glu Glu Thr
275      260      265      270
277 Ile Phe Ser Leu Ile Ser Gln Leu Pro Thr Leu His Cys Leu Gln Lys
278      275      280      285
280 Leu Tyr Val Asn Asp Val Pro Phe Ile Lys Gly Asn Leu Lys Glu Tyr
281      290      295      300
283 Leu Arg Cys Leu Lys Lys Pro Leu Glu Thr Leu Cys Ile Ser Asn Cys
284 305      310      315      320
286 Asp Leu Ser Gln Ser Asp Leu Asp Cys Leu Pro Tyr Cys Leu Asn Ile
287      325      330      335
289 Cys Glu Leu Lys His Leu His Ile Ser Asp Ile Tyr Leu Cys Asp Leu
290      340      345      350
292 Leu Leu Glu Pro Leu Gly Phe Leu Leu Glu Arg Val Gly Asp Thr Leu
293      355      360      365
295 Lys Thr Leu Glu Leu Asp Ser Cys Cys Ile Val Asp Phe Gln Phe Ser
296      370      375      380
298 Ala Leu Leu Pro Ala Leu Ser Gln Cys Ser His Leu Arg Glu Val Thr
299 385      390      395      400
301 Phe Tyr Asp Asn Asp Val Ser Leu Pro Phe Leu Lys Thr Thr Ser Thr
302      405      410      415
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308 <211> LENGTH: 1018
309 <212> TYPE: DNA
310 <213> ORGANISM: Mus musculus
312 <400> SEQUENCE: 5
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315 aacagctgag ctccaagcaa ggaccagga ccttgctca ccacagacat aatctttccc      120
317 cacaacacct ccaccaagcc gccctgtaaa tcgacatgag tcgccacagc accagcagcg      180
319 tgaccgaaac cacagcaaaa aacatgctct ggggtagtga actcaatcag gaaaagcaga      240

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,810A

DATE: 10/16/2001

TIME: 11:50:08

Input Set : A:\PTO.MH.txt

Output Set: N:\CRF3\10162001\I830810A.raw

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321 cttgcacctt tagaggccaa ggcgagaaga aggacagctg taaactcttg ctcagcacga 300
323 tctgcctggg ggagaaagcc aaagaggagg tgaaccgtgt ggaagtcctc tcccaggaag 360
325 gcagaaaacc accaatcact attgctacgc tgaaggcatc agtcctgccc atggtcactg 420
327 tgtcaggtat agagctttct cctccagtaa cttttcggct caggactggc tcaggacctg 480
329 tgttcctcag tggcctggaa tgttatgaga cttcggacct gacctgggaa gatgacgagg 540
331 aagaggagga agaggaggag gaagaggatg aagatgagga tgcagatata tcgctagagg 600
333 agataacctgt caaacaagtc aaaaggggtg ctccccagaa gcagatgagc atagcaaaga 660
335 aaaagaaggt ggaaaaagaa gaggatgaaa cagtagtgag gccagccct caggacaaga 720
337 gtccctggaa gaaggagaaa tctacacca gagcaaagaa gccagtgacc aagaaatgac 780
339 ctcatcttag catcttctgc gtccaaggca ggatgtccag cagctgtgtt ttggtgcagg 840
341 tgtccagccc caccacccta gtctgaatgt aataaggtgg tgtggctgta accctgtaac 900
343 ccagccctcc agtttccgga ggttttggg gaagagcccc cagcaagttc gcctagggcc 960
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350 <212> TYPE: PRT

351 <213> ORGANISM: Mus musculus

353 <400> SEQUENCE: 6

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359 20 25 30
361 Arg Gly Gln Gly Glu Lys Lys Asp Ser Cys Lys Leu Leu Ser Thr
362 35 40 45
364 Ile Cys Leu Gly Glu Lys Ala Lys Glu Glu Val Asn Arg Val Glu Val
365 50 55 60
367 Leu Ser Gln Glu Gly Arg Lys Pro Pro Ile Thr Ile Ala Thr Leu Lys
368 65 70 75 80
370 Ala Ser Val Leu Pro Met Val Thr Val Ser Gly Ile Glu Leu Ser Pro
371 85 90 95
373 Pro Val Thr Phe Arg Leu Arg Thr Gly Ser Gly Pro Val Phe Leu Ser
374 100 105 110
376 Gly Leu Glu Cys Tyr Glu Thr Ser Asp Leu Thr Trp Glu Asp Asp Glu
377 115 120 125
379 Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp Glu Asp Ala Asp
380 130 135 140
382 Ile Ser Leu Glu Glu Ile Pro Val Lys Gln Val Lys Arg Val Ala Pro
383 145 150 155 160
385 Gln Lys Gln Met Ser Ile Ala Lys Lys Lys Val Glu Lys Glu Glu
386 165 170 175
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395 <211> LENGTH: 214

396 <212> TYPE: DNA

397 <213> ORGANISM: Mus musculus

399 <400> SEQUENCE: 7

VERIFICATION SUMMARY

DATE: 10/16/2001

PATENT APPLICATION: US/09/830,810A

TIME: 11:50:09

Input Set : A:\PTO.MH.txt

Output Set: N:\CRF3\10162001\I830810A.raw

PCT09

RAW SEQUENCE LISTING

DATE: 09/20/2001

PATENT APPLICATION: US/09/830,810A

TIME: 08:33:07

Input Set : A:\Seq.txt

Output Set: N:\CRF3\09202001\I830810A.raw

3 <110> APPLICANT: Matzuk, Martin
 4 Pei, Wang
 6 <120> TITLE OF INVENTION: OVARY SPECIFIC GENES AND PROTEINS
 8 <130> FILE REFERENCE: P01925US1 / 09807797 / OTA 99-48
 10 <140> CURRENT APPLICATION NUMBER: 09/830,810A
 11 <141> CURRENT FILING DATE: 2001-04-27
 13 <150> PRIOR APPLICATION NUMBER: PCT/US99/25209
 14 <151> PRIOR FILING DATE: 1999-10-28
 16 <150> PRIOR APPLICATION NUMBER: 60/106,020
 17 <151> PRIOR FILING DATE: 1998-10-28
 19 <160> NUMBER OF SEQ ID NOS: 15
 21 <170> SOFTWARE: PatentIn version 3.0

ERRORED SEQUENCES

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 501 <213> ORGANISM: Mus musculus
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 508 gtgtccagcc ccaccaccct agtctgaatg taataagggtg gtgtggctgt aaccctgtaa 180
 510 ccagccctc cagtttccgg aggtttttgg tgaagagccc ccagcaagtt cgcctagggc 240
 512 cacaataaaa ttgcatgat caggacctcc ctctgcctcc ccctccctgg atgggtctcc 300
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 516 atgt 364

E--> 526 25022143.1 Page 1
 E--> 551 25025130.1
 E--> 558 4

Delete Nm ABCD Ver

VERIFICATION SUMMARY

DATE: 09/20/2001

PATENT APPLICATION: US/09/830,810A

TIME: 08:33:08

Input Set : A:\Seq.txt

Output Set: N:\CRF3\09202001\I830810A.raw

L:526 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:369 SEQ:15
 L:526 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
 M:254 Repeated in SeqNo=15
 L:551 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9
 L:558 M:252 E: No. of Seq. differs, <211>LENGTH:Input:364 Found:370 SEQ:15

*Relate
 Non AGCT test*

STATISTICS SUMMARY

PATENT APPLICATION: US/09/830,810A

DATE: 09/20/2001

TIME: 08:33:08

Input Set : A:\Seq.txt

Output Set: N:\CRF3\09202001\I830810A.raw

Application Serial Number: US/09/830,810A

Alpha or Numeric: Numeric

Application Class:

Application File Date: 04-27-2001

Art Unit: PCT09

Software Application: PatentIn

Total Number of Sequences: 15

Total Nucleotides: 5591

Total Amino Acids: 994

Number of Errors: 6

Number of Warnings: 0

Number of Corrections: 0

MESSAGE SUMMARY

252 E: 1 (No. of Seq. differs)

254 E: 3 (No. of Bases conflict)

320 E: 2 ((1) Wrong Nucleic Acid Designator)